

12/65

Dear Sir:

A complete tabulation of worldwide logic circuits would be a useful tool to many people in the field. A book that includes not just major technical characteristics, but also price, logic and schematic drawings, and various manufacturers' information. With this in mind, D.A.T.A. has published the first edition of the Computer Logic Circuit Characteristics Tabulation. In one book you will find data on over 3,000 off-the-shelf types produced by over 70 worldwide manufacturers --- and over 1,500 cross-referenced drawings (Outline and Logic) to give you maximum information.

Think of the time and money you will save by having all your circuit information available at your fingertips. No more looking through countless catalogs and new product releases. No more type and manufacturer gaps in your file, but the most complete list available.

Let's look at just one of the many features in this Tabulation - the Logic Circuit Thesaurus. Over 170 circuit terms are listed to assist you in locating the proper technical section fast and reduce "term confusion." It's just one of the many firsts.

Read the enclosed folder for complete information on how the "Circuit Tab" will benefit you. Use the convenient order card to have your logic circuit data complete, up-to-date, and in one easy-to-use Tabulation.

Cordially,

Robert A. Gottberg
Manager, Customer Services

pr

D.A.T.A. inc.
DERIVATION AND TABULATION ASSOCIATES, INC.

43 South Day Street Orange, N. J. 07050 Tel. 201-673-8030

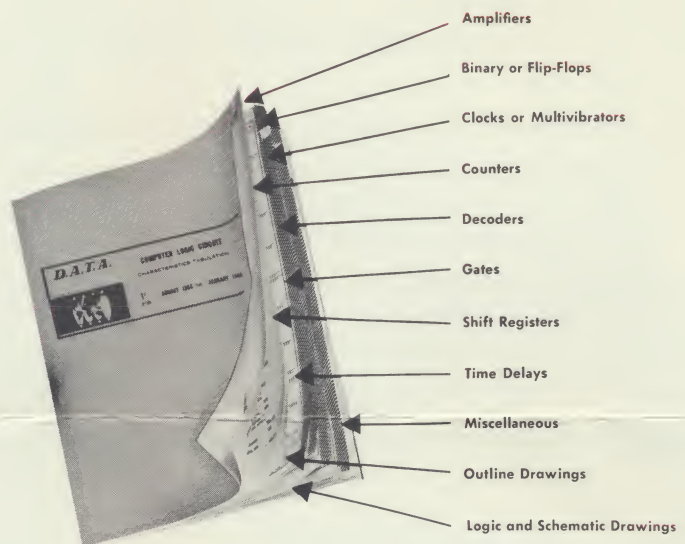
OVER 3,200 LOGIC CIRCUITS

MONOLITHIC – THINFILM – DISCRETE

Are presented in the

COMPUTER LOGIC CIRCUIT CHARACTERISTICS TABULATION

by D.A.T.A., Inc.



Unique and Completely New:

D.A.T.A.'s comprehensive "Circuits Tab" is the result of several hundred man-months of effort. We believe we have compiled the most useful, articulate "working tool" for anyone who requires circuit information. Check these features — then turn the page for details of content and format.

Features and Coverage:

1. Subscription consists of two complete Editions — August and February. Each Edition is completely new and supersedes the previous issue. Annual subscription \$32.50, U.S. and Canada; \$36.50 Elsewhere.
2. Includes the commercially available circuits of over 66 manufacturers.
3. Organized by Major Electrical Characteristics.
4. Organized by Type Number. Each circuit is listed in the type number order, together with current manufacturers of that type number, and cross referenced by line number to its technical data.
5. Outline drawings for each circuit.
6. Logic drawings for each circuit — many with schematics, including pin connection
7. Unit price per 100 lot for most circuits.
8. Detailed symbols and explanation for logic types, structure, frequency limits, maximum noise rejection, propagation delay, maximum operating frequency — and more.
9. A Logic Circuit Thesaurus — over 170 circuit terms are listed to assist in locating the proper technical section fast, regardless of the term you might use to describe that particular circuit.
10. List of manufacturers who develop and manufacture custom component circuits.

{ More than
1,500
drawings
in all.

and remember . . . all of this for over 3,200 off-the-shelf circuits.

7 BASIC CIRCUIT CLASSIFICATIONS

- Discrete component modular and Printed board circuits
- Discrete component microcircuits
- Thin film integrated circuits
- Monolithic integrated circuits
- Thin film integrated hybrid circuits
- Monolithic integrated hybrid circuits
- Metal oxide semiconductor microcircuits

The technical characteristics of these circuits are covered under 9 major sections and 77 sub-sections. Below is a section of the Table of Contents to show the technical detail in which circuits are classified and their characteristics described.

Section 3 — Amplifiers

- | | | |
|---------------------|---------------------------|-----------------------|
| 1. Emitter Follower | 5. Power Amplifier | 9. Squaring Amplifier |
| 2. Linear AC | 6. Pulse | 10. Video Amplifier |
| 3. Linear DC | 7. Differential Amplifier | |
| 4. Operational | 8. Servo | |

Section 4 — Binary or Flip-Flops

- | | | |
|--------|-------------------|------------------|
| 1. J-K | 3. R-S-T | 5. T |
| 2. R-S | 4. Shift Register | 6. Complement RS |

Section 5 — Clocks or Multivibrators

- | | | |
|-------------------------|---------------------|---------------------------|
| 1. Astable | 3. Astable Variable | 4. Crystal Controlled |
| 2. Astable Synchronized | | 5. Tuning Fork Controlled |

Section 6 — Counters

- | | | |
|-------------------------|---------------|------------|
| 1. Binary Coded Decimal | 3. Decimal | 5. Ring |
| 2. Binary | 4. Fast Carry | 6. Special |

Section 7 — Decoders

- | | | |
|-------------------------|------------------------------|--------------------------------|
| 1. Binary | 7. Half Binary | 13. 2421 Code |
| 2. Binary Coded Decimal | 8. Octal | 14. 5421 Code |
| 3. Bi-Quinary | 9. Quarternary | 15. 5311 Code |
| 4. Decimal | 10. Quinary | 16. 7421 Code |
| 5. Excess 3 Code | 11. Ring Counter | 17. 8421 Code |
| 6. Gray Code | 12. Switch Tail Ring Counter | 18. One of "X" Number of Lines |

Section 8 — Gates

- | | | |
|--------|---------|------------------|
| 1. AND | 3. NOR | 5. Exclusive OR |
| 2. OR | 4. NAND | 6. Gate Expander |

Section 9 — Shift Registers

- | | | |
|-------------------------|-----------------------|--------------------|
| 1. Parallel to Parallel | 3. Serial to Parallel | 5. Buffer Register |
| 2. Parallel to Serial | 4. Serial to Serial | |

Section 10 — Time Delays

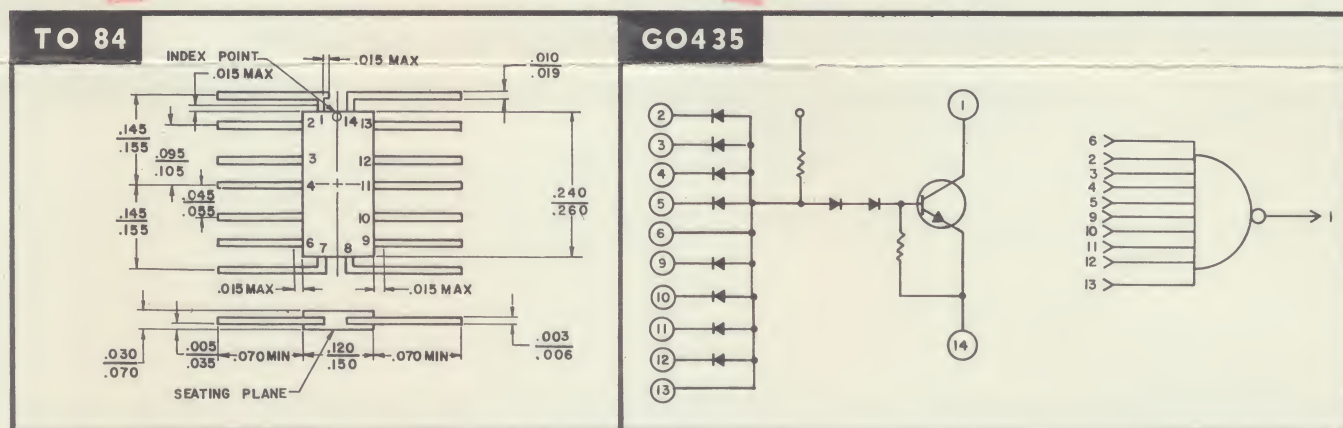
- | | |
|-------------------------------------|---|
| 1. Delay Line Fixed | 4. Mono-Stable Multivibrator Fixed Delay |
| 2. Delay Line Tapped | 5. Mono-Stable Multivibrator Variable Delay |
| 3. Delay Line Continuously Variable | |

Section 11 — Miscellaneous

- | | | |
|--------------------------------|------------------------------|-----------------------------|
| 1. Analog to Digital Converter | 6. Inverter | 11. Neon Lamp Driver |
| 2. Digital to Analog Converter | 7. Logic Level Converter | 12. Relay Driver |
| 3. Full-Adder | 8. Polarity Converter | 13. Head Selector |
| 4. Half-Adder | 9. Schmitt Trigger | 14. Mode Selector |
| 5. Interface Converter | 10. Incandescent Lamp Driver | 15. Special Purpose Circuit |
| | | 16. Binary Divider |

Here is a sample of a typical Technical Section plus outline drawing and circuit/schematic drawings to show format and completeness of information —

SECTION 8. GATES										IN ORDER OF ① TYPE OF GATE, ② MAX. OPERATING FREQ., ③ STRUCTURE ④ LOGIC LEVEL "1", ⑤ LOGIC LEVEL "0", ⑥ TYPE No.												
LINE No.	TYPE No.	① TYPE OF GATE	② MAX. OPER. FREQ. (Mc)	③ STRUCTURE	LOGIC			FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (ns)	MAX. RISE TIME tr (ns)	MAX. FALL TIME tf (ns)	MAX. TOTAL PACKAGE POWER DISSIP. (mW)	MAX. NOISE REJECTION (mV)	TEMPERATURE		UNIT PRICE 100 LOT (Dollar)	C K T S	DRAWINGS	
					LEVEL	TYPE	IN (No. Leads)	OUT MAX.	NEG. (Volts)	POS. (Volts)	LOW (°C)						HIGH (°C)	LOGIC DWG. No.			OUTLINE DWG. No.	
																						④ "1" (Volts)
	NG884	4	2.0	PCB	-6.0	0.0	DTL	4	6	12	12	150	90	110	900	1.5V	-45	65	79	8	G041	CB1
	NG784	4	.50	PCB	-6.0	0.0	DTL	4	7	12	12	300	350	350	850	1.5V	-45	65	43	8	G041	CB1
	NG684	4	.10	PCB	-6.0	0.0	DTL	4	7	12	12	600	1.0u	2.0u	400	1.5V	-45	65	38	8	G041	CB1
	NG983	4	1.0	PCB	-6.0	0.0	DTL	4Δ	5	12	12	25	26	30	2.4W	1.5V	-45	65	104	8	G041a	CB1
	NG883	4	2.0	PCB	-6.0	0.0	DTL	4Δ	6	12	12	150	90	110	900	1.5V	-45	65	81	8	G041a	CB1
	NG783	4	.50	PCB	-6.0	0.0	DTL	4Δ	7	12	12	300	350	350	850	1.5V	-45	65	46	8	G041a	CB1
	NG683	4	.10	PCB	-6.0	0.0	DTL	4Δ	7	12	12	600	1.0u	2.0u	400	1.5V	-45	65	40	8	G041a	CB1
	NG982	4	1.0	PCB	-6.0	0.0	DTL	3Δ	5	12	12	25	26	30	2.4W	1.5V	-45	65	98	8	G041a	CB1
	NG882	4	2.0	PCB	-6.0	0.0	DTL	3Δ	6	12	12	150	90	110	900	1.5V	-45	65	75	8	G042	CB1
	NG782	4	.50	PCB	-6.0	0.0	DTL	3Δ	7	12	12	300	350	350	850	1.5V	-45	65	43	8	G042	CB1
	NG682	4	.10	PCB	-6.0	0.0	DTL	3Δ	7	12	12	600	1.0u	2.0u	400	1.5V	-45	65	37	8	G042	CB1
	RM204	4	.50	MON	3.5	.60	DTL	5Δ	11	0	6	38	46	21	9.5	550	-55	125	1	G0432	ZB20	
	RM214	4	5.0	MON	3.5	.60	DTL	7Δ	11	0	6	38	46	21	9.5	550	-55	125	1	G0433	ZB20	
	RM224T	4	5.0	MON	3.5	.60	DTL	9Δ	11	0	6	38	46	21	9.5	550	-55	125	1	G0434	CN18	
	RM224G	4	5.0	MON	3.5	.60	DTL	10Δ	11	0	6	38	46	21	9.5	550	-55	125	1	G0435	TO84	
	RM206G	4	5.0	MON	3.5	.60	DTL	3Δ	11	0	6	32	32	24	28	550	-55	125	3	G0436a	TO84	
	RM216G	4	5.0	MON	3.5	.60	DTL	3Δ	11	0	6	32	32	24	28	550	-55	125	3	G0436	TO84	
	RM210T, G, Q	4E	2.0	MON	3.5	.60	DTL	3	22	0	6	75	52	105	60	550	-55	125	2	G0437	ZB20	



At a glance — this tab will provide you with —

- Logic level compatibility.
- Information on interface equipment such as line drivers, A to D conversion devices, linear amplifiers, etc.
- Tech data on microcircuits as well as Cordwoods, P. C. Boards and Epoxy Blocks.

Whether you are designing, writing purchase specs, looking for supply sources or doing incoming inspection — this "Circuit Tab" is a must for more efficient and effective work.

☐ Place my order for subscriptions to the D.A.T.A. Computer Logic Circuit Characteristics Tabulation at \$32.50 each U. S. and Canada (\$36.50 elsewhere).

☐ 1 yr. ☐ 2yrs.* ☐ automatic renewal *

* Automatic renewal assures your subscription is kept active at all times. Automatic billing once a year.

☐ Send Invoice

☐ Check Enclosed

As is D.A.T.A.'s policy — 30 Day Free Trial on all Tabulations.

Name Dept. or Mail Station

Company

Address City

State Country Zip

D.A.T.A.'s

Computer Logic Circuit Characteristics Tabulation is designed to provide answers for all these search situations.

- Situation 1 You need a circuit meeting certain electrical and/or mechanical requirements.
- Situation 2 You need the characteristics of a type number.
- Situation 3 You want to know the manufacturer(s) of one or more type numbers.
- Situation 4 You desire substitution possibilities for a given type number.
- Situation 5 You need the package and dimensions of a given type number.
- Situation 6 You want the logic and/or schematic of a certain circuit.
- Situation 7 You are interested in the "Ball Park" price of a type number.
- Situation 8 You are searching for a particular kind of circuit.

We are sure you will agree — if you can find these answers in one convenient place quickly — this Tabulation will pay for itself almost immediately — in time saved alone.

D.A.T.A.'s "Circuits Tab" is the most versatile source book on logic circuit data and manufacturers ever presented. So use this card to assure receiving your copy by return mail.

BUSINESS REPLY MAIL
NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

POSTAGE WILL BE PAID BY

D.A.T.A.

P. O. BOX 46 A
ORANGE, N. J. 07050

FIRST CLASS
PERMIT NO. 14
ORANGE, N. J.

